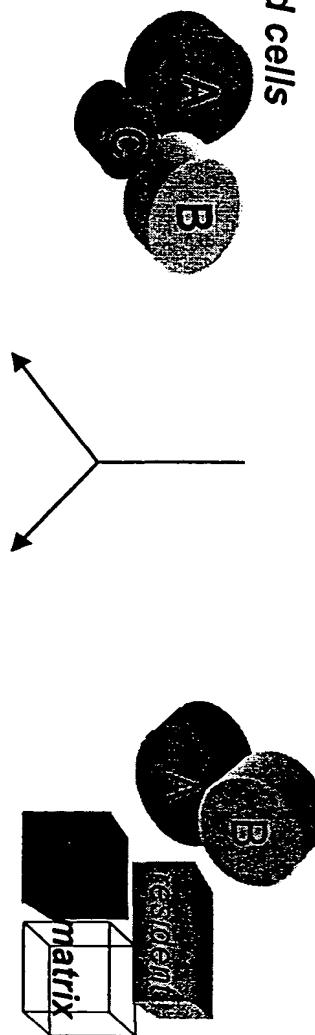


FIG. 1

# Transcellular LM Biosynthesis

## Cell-Cell Interactions

Blood cells



## Amplification

Leukotrienes,  
Prostaglandins  
PAF, EETs, Novel  
Mediators

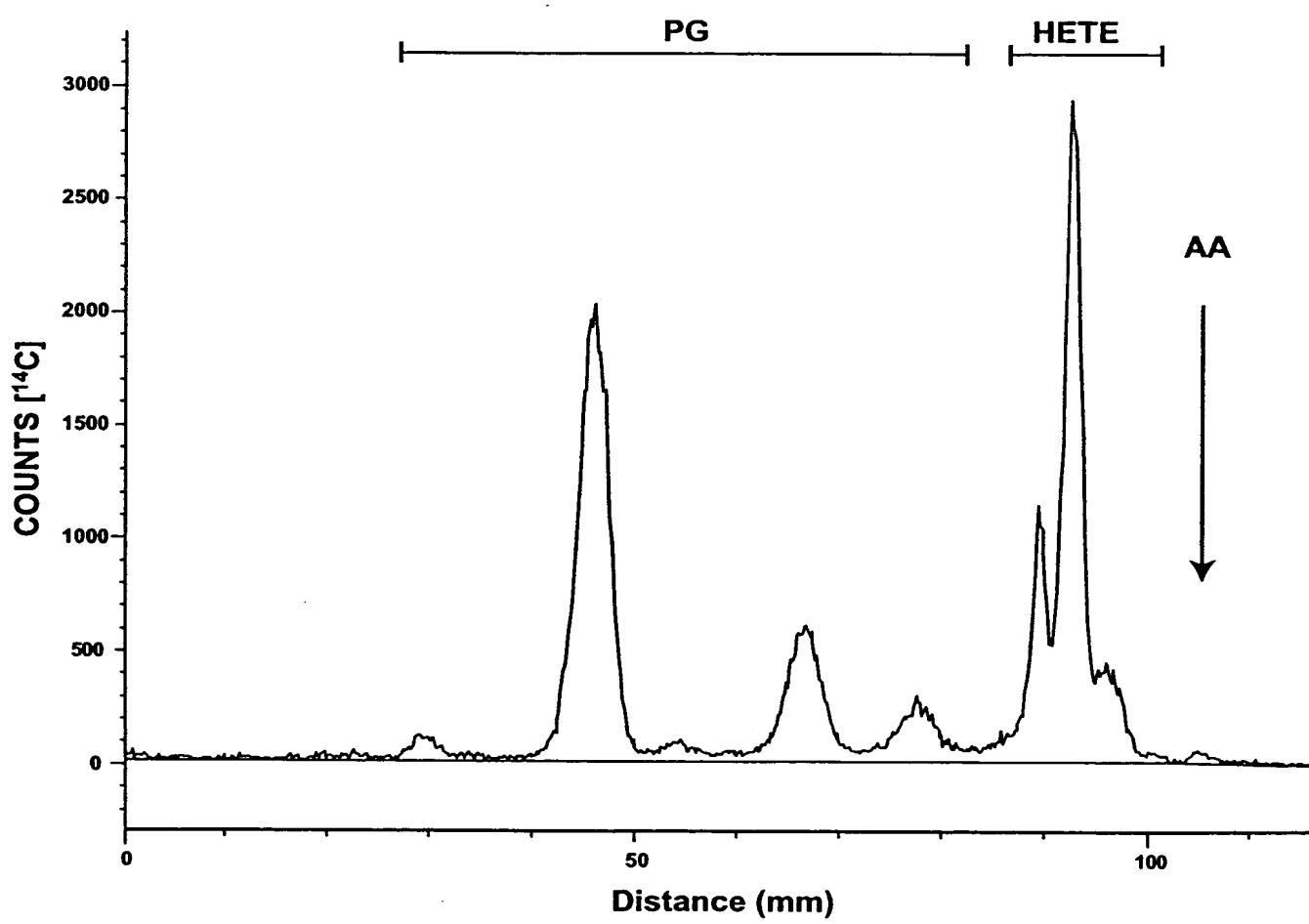
## Braking Signals

Lipoxins  
Novel Mediators,  
ATL

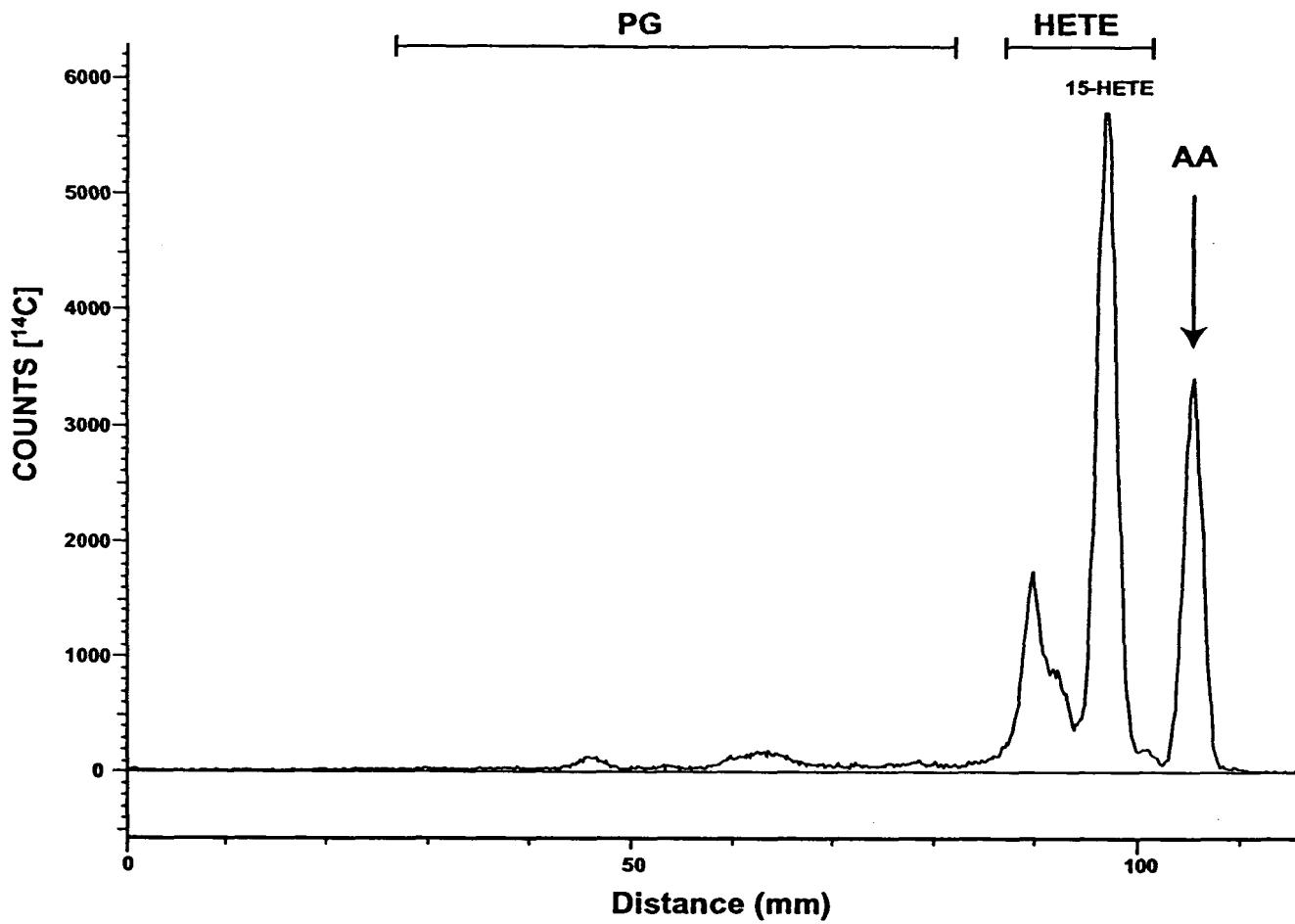
## Proinflammatory Signals

Antiinflammatory/  
Resolution

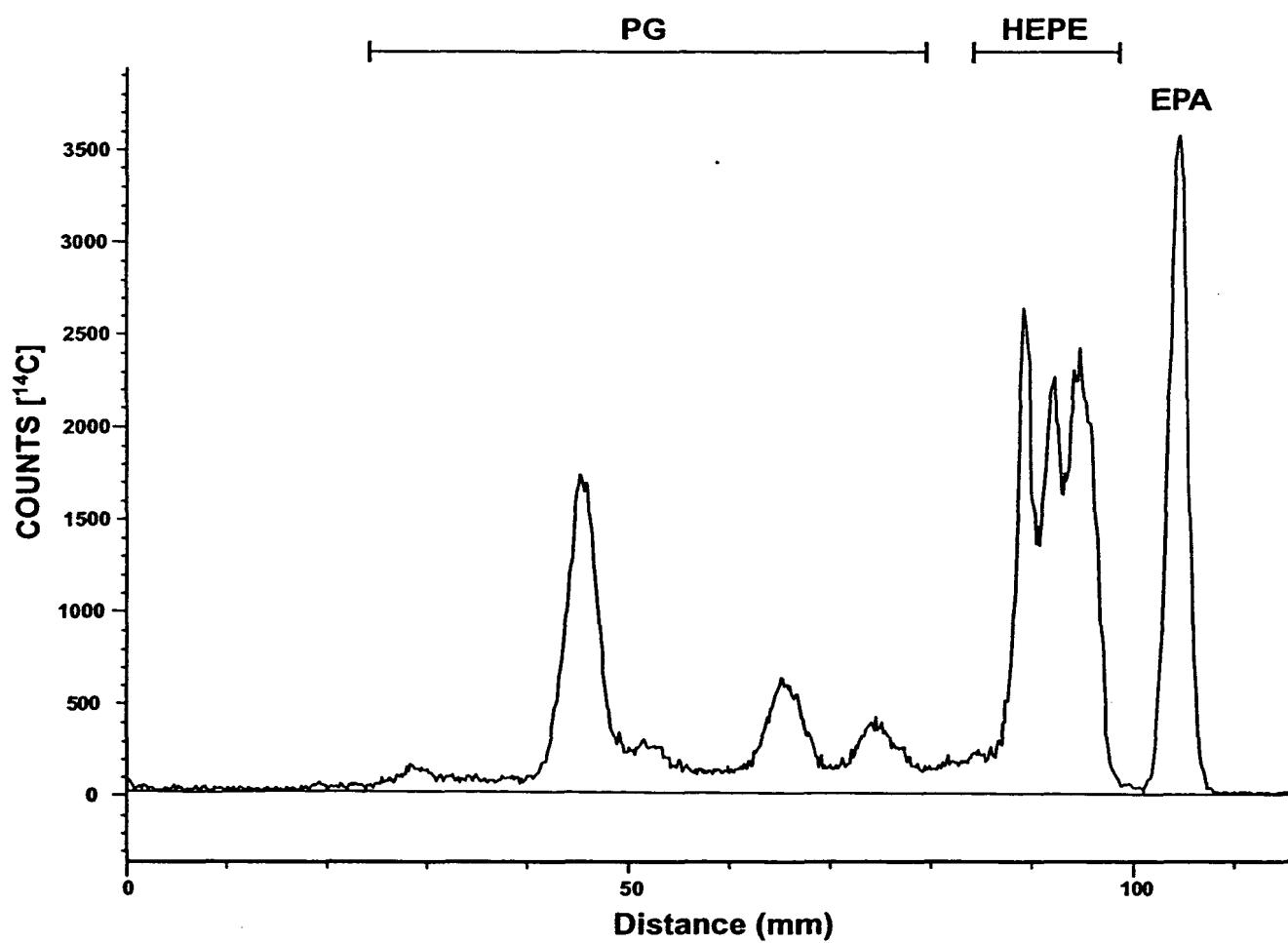
**FIG. 2A**



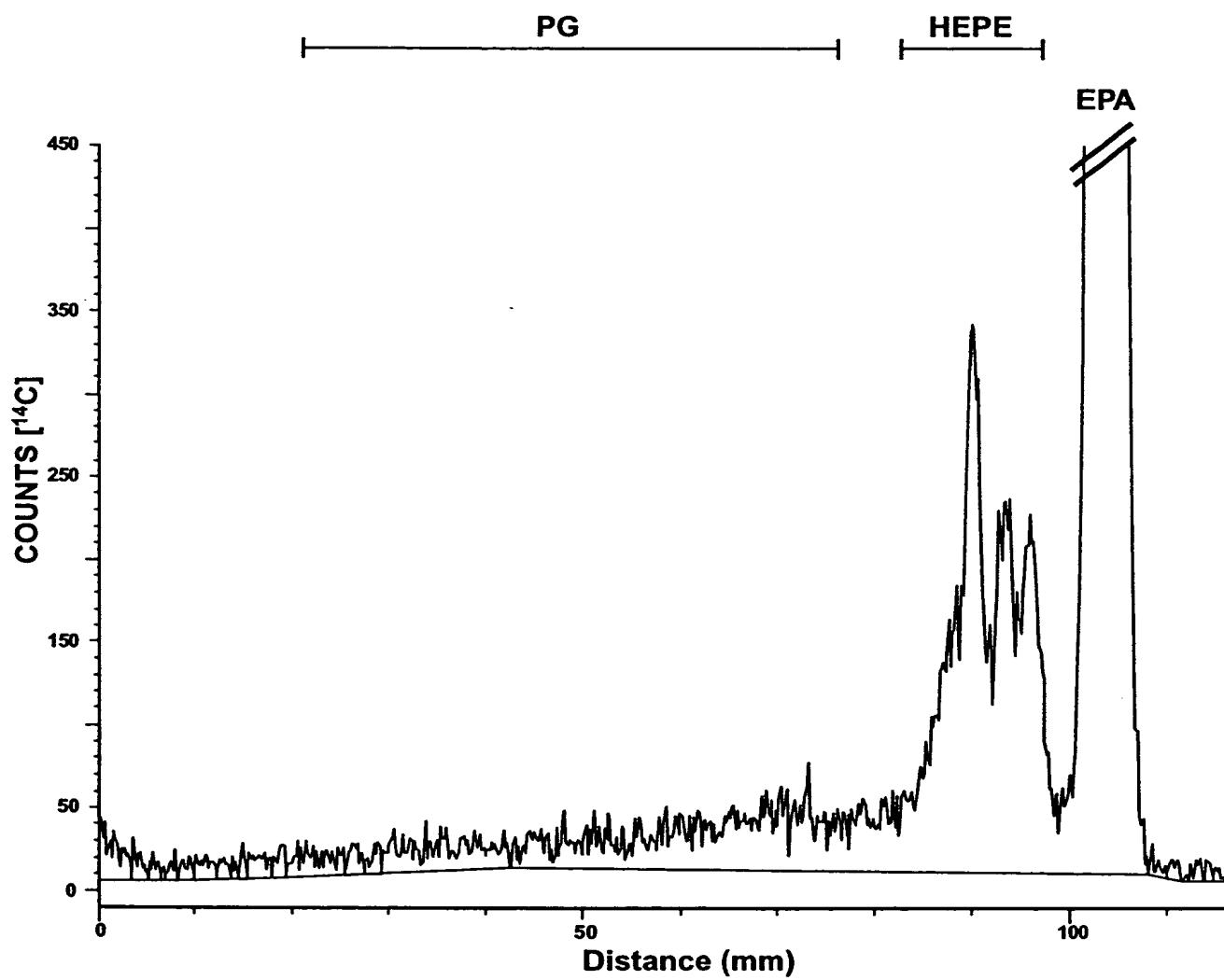
**FIG. 2B**



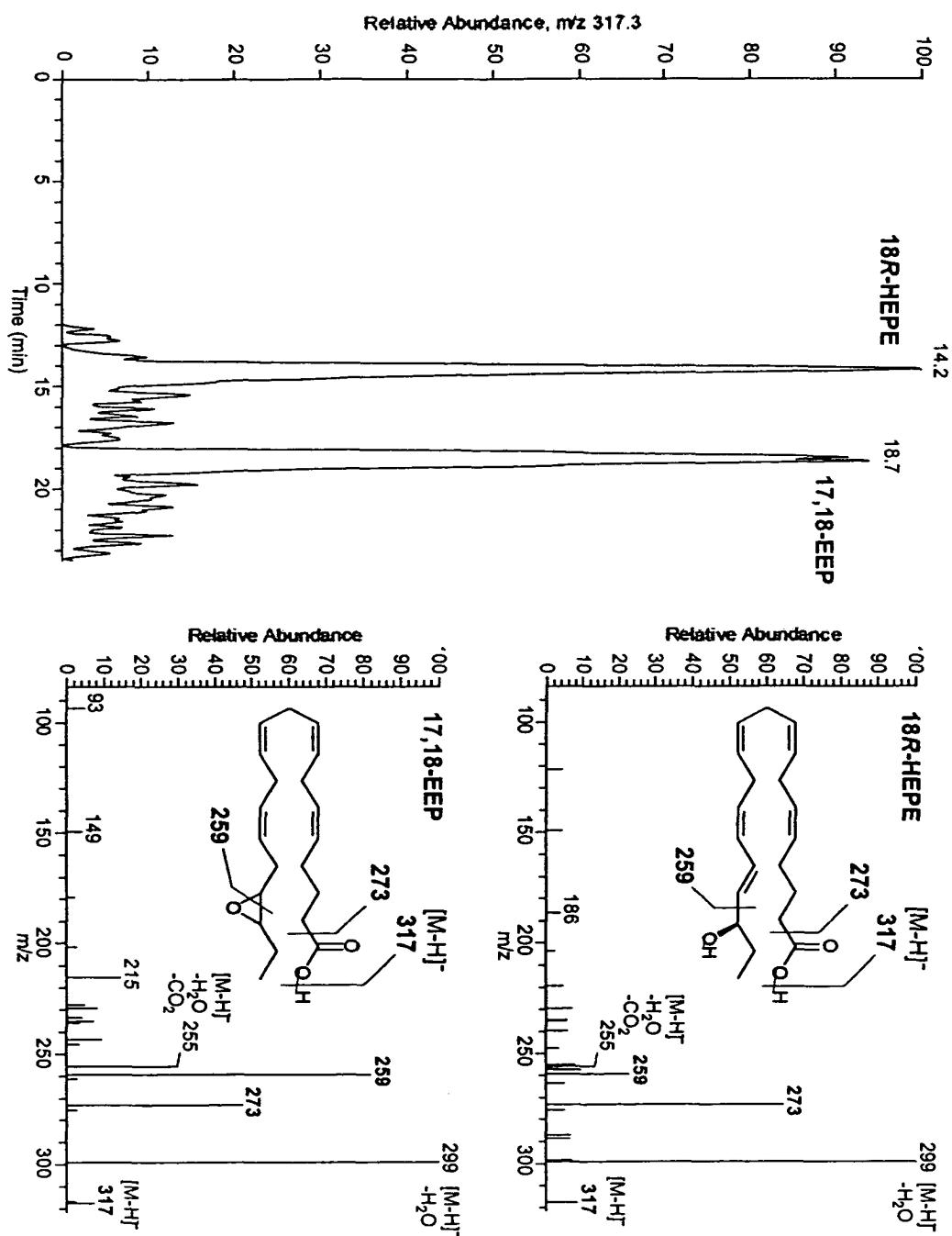
**FIG. 2C**



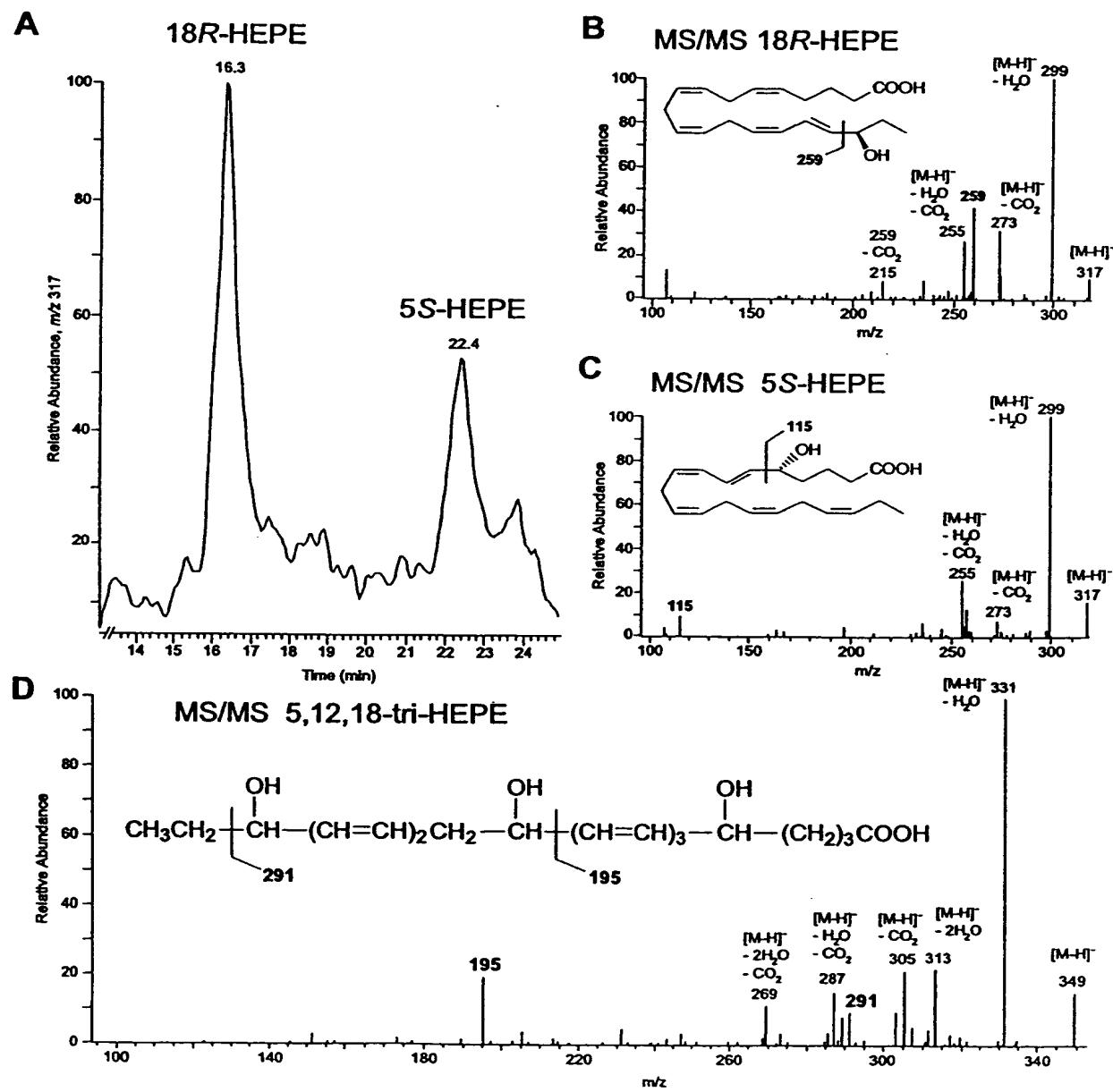
**FIG. 2D**



**FIG. 3**  
**Conversion of EPA by *B. megaterium***



**FIG. 4**



## MS 5,12,18-tri-HEPE from *B. megaterium*

FIG. 5

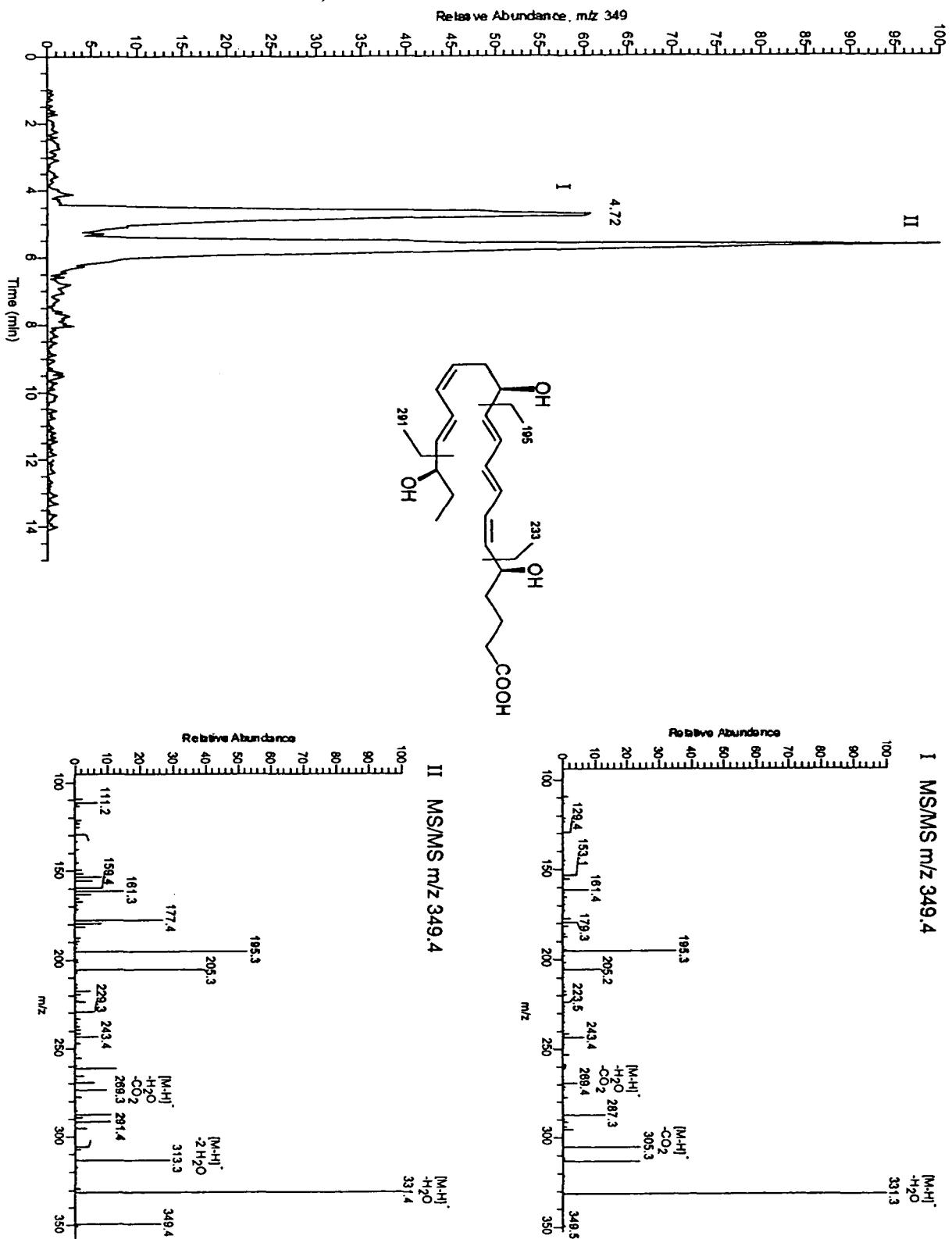
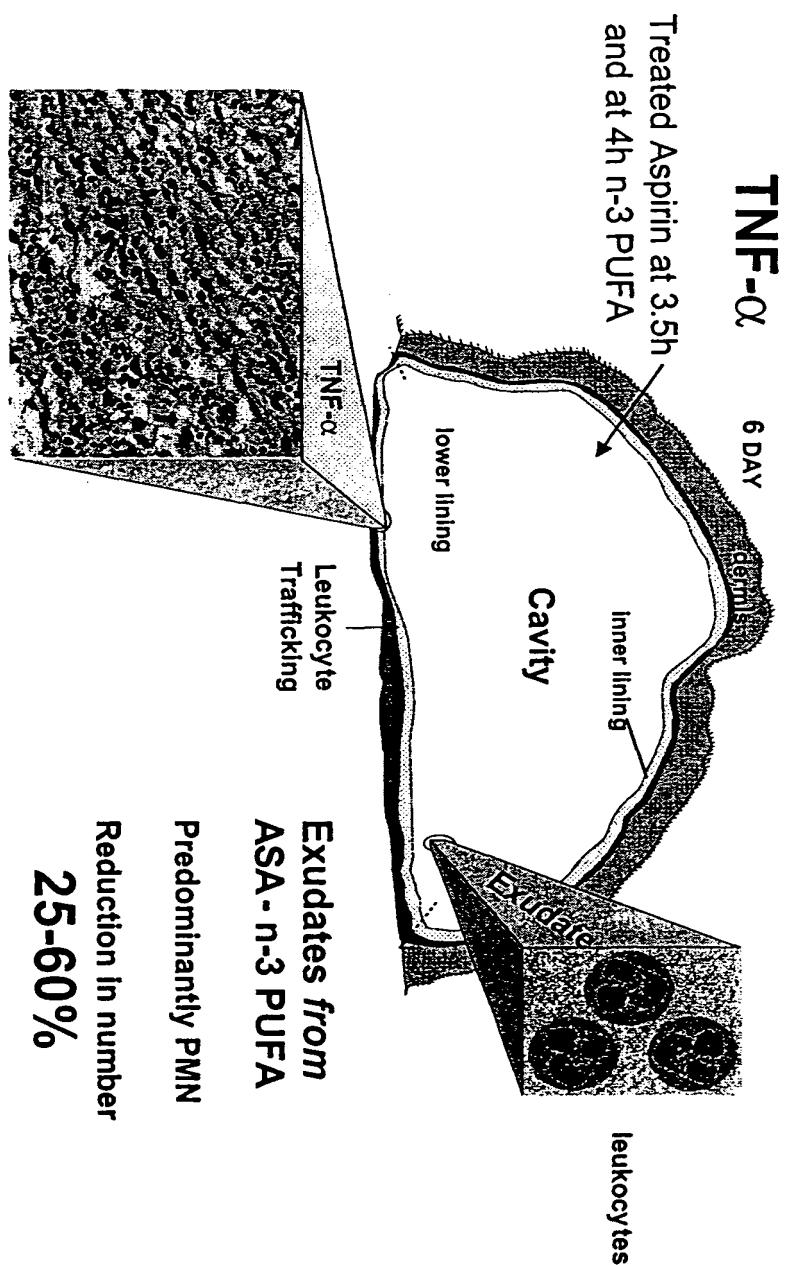
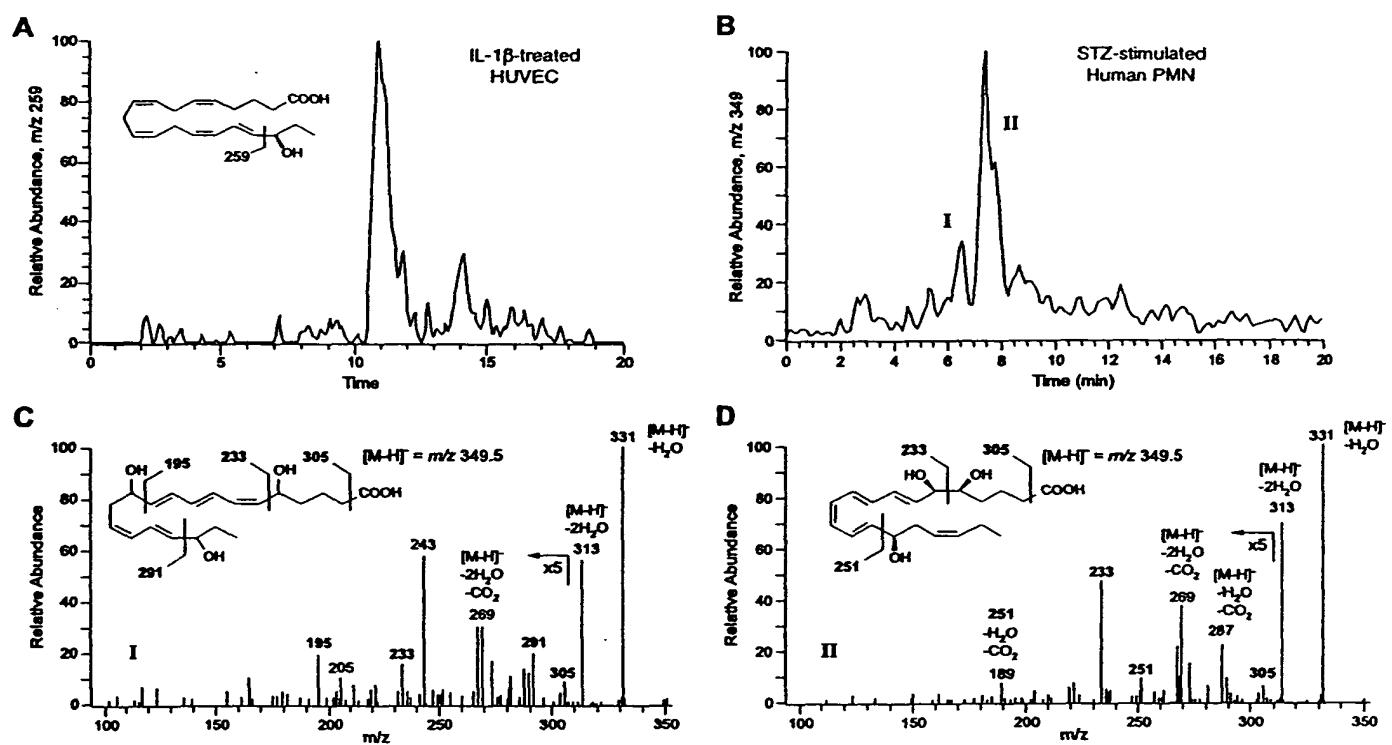


FIG. 6

## Murine Dorsal Air Pouch





**FIG. 7**

FIG. 8

## Mono-HEPES: Enzymatic Products from Acetylated COX 2 and EPA

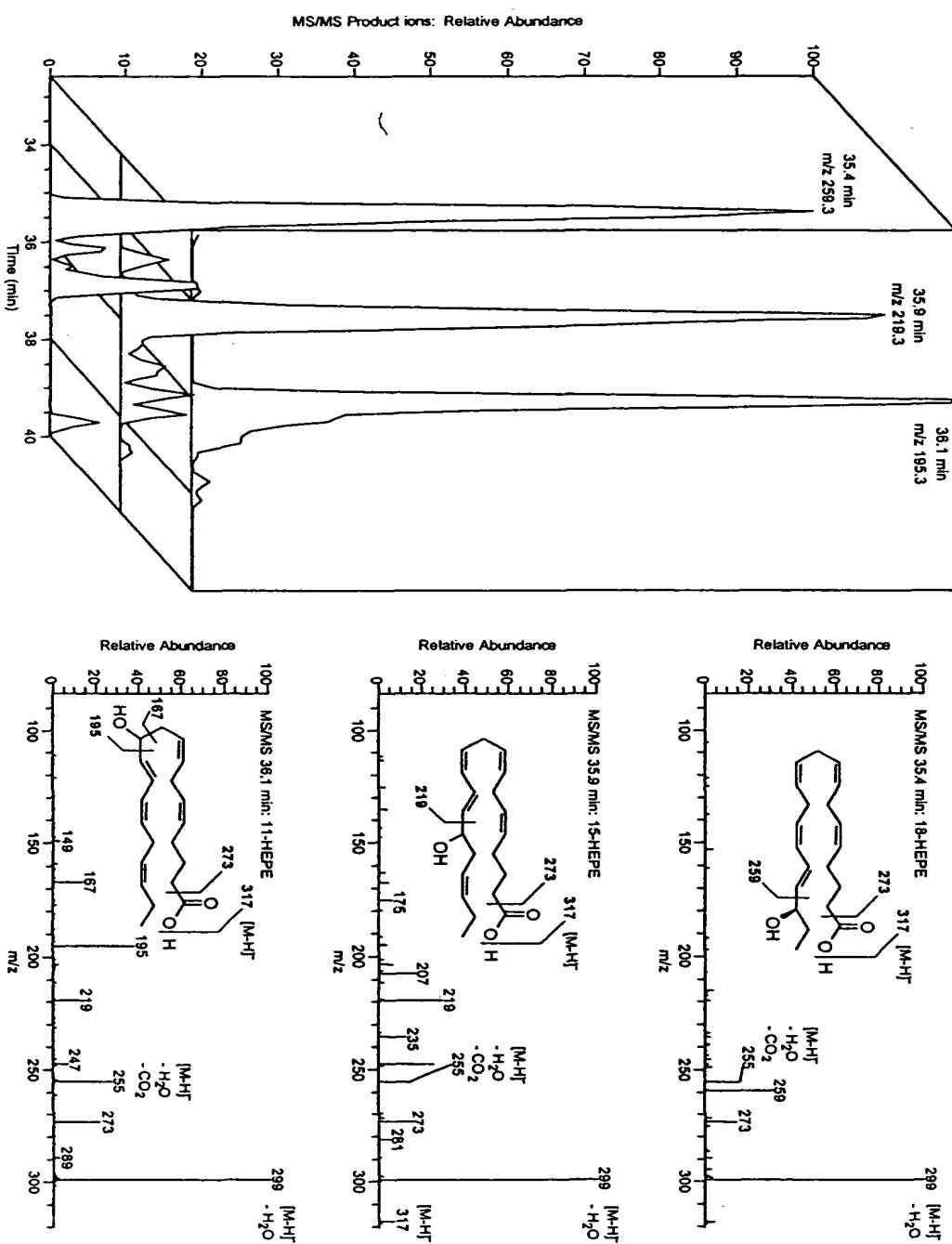


FIG. 9

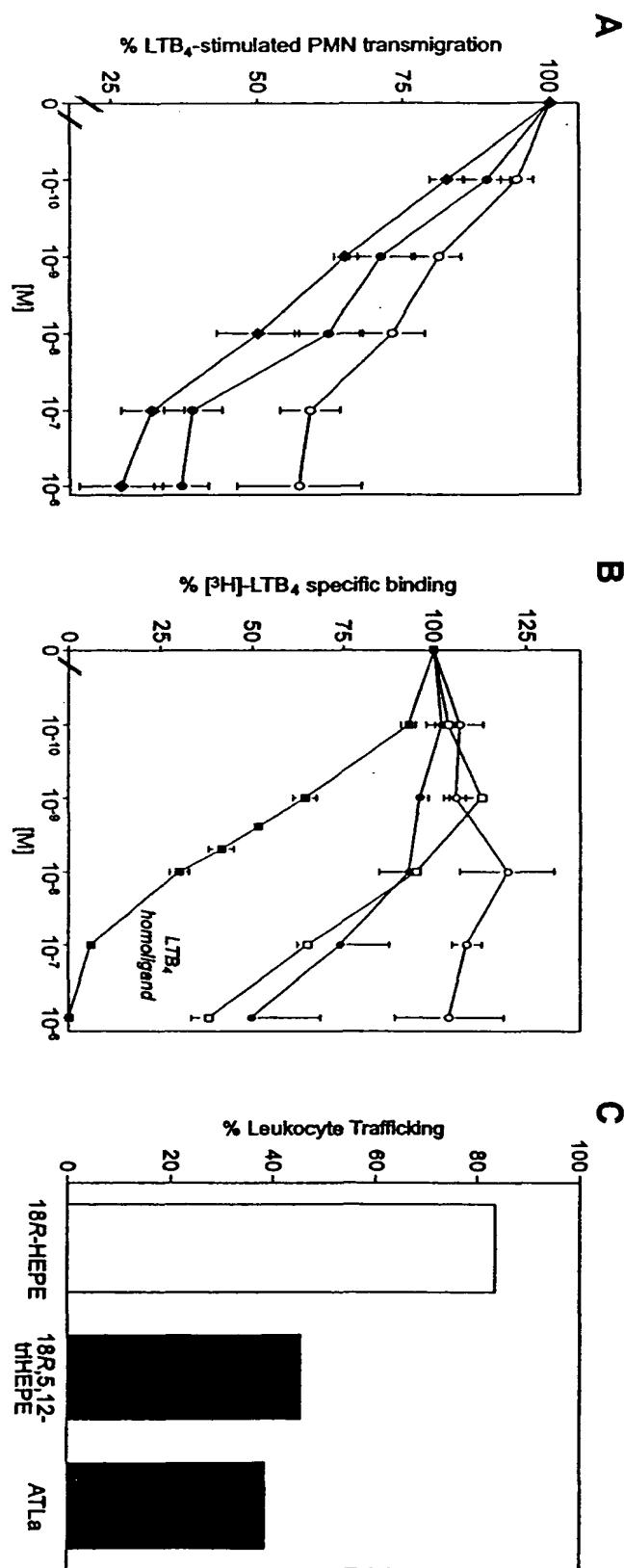


FIG. 10A

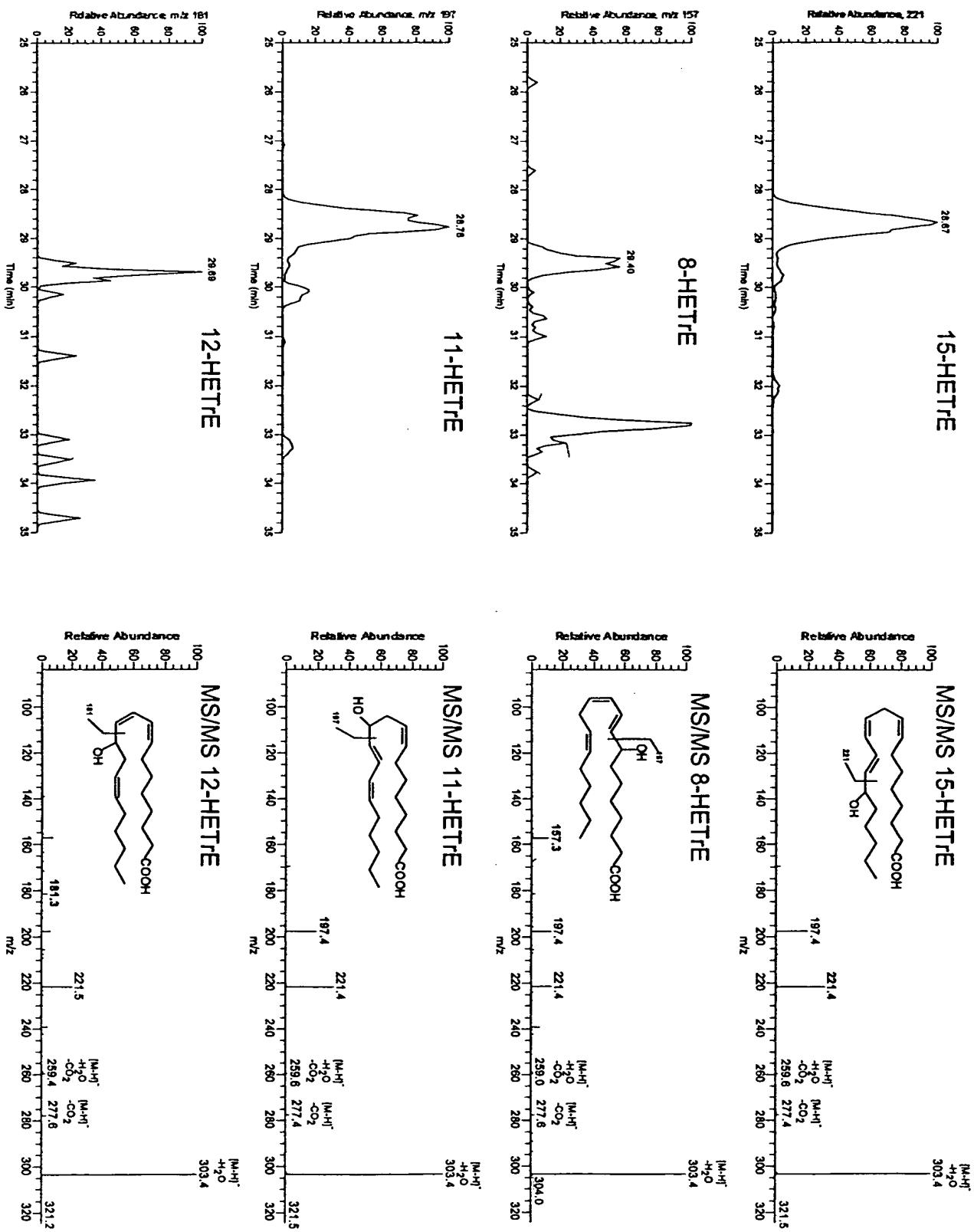


FIG. 10B

## MS/MS 12-HOTrE

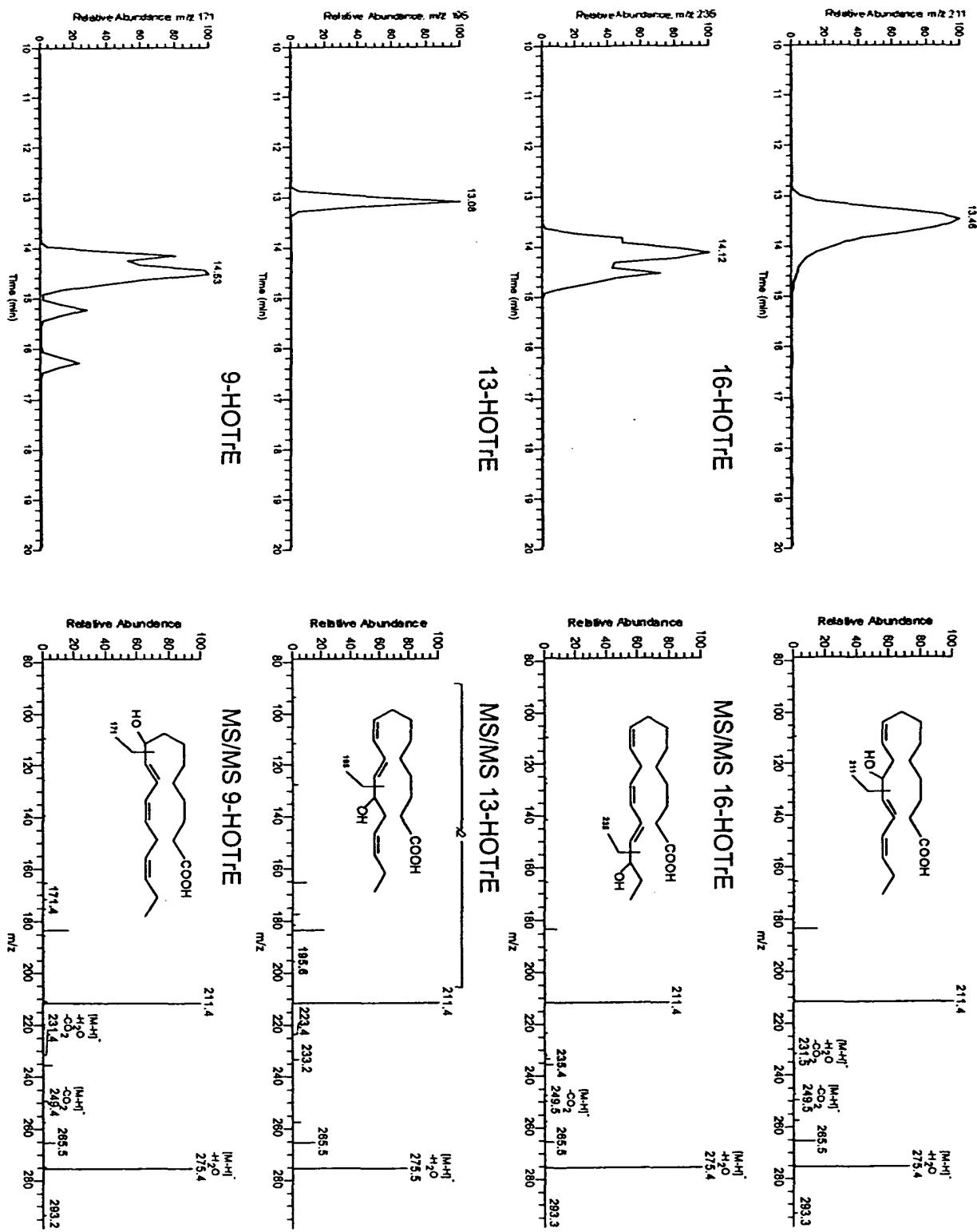
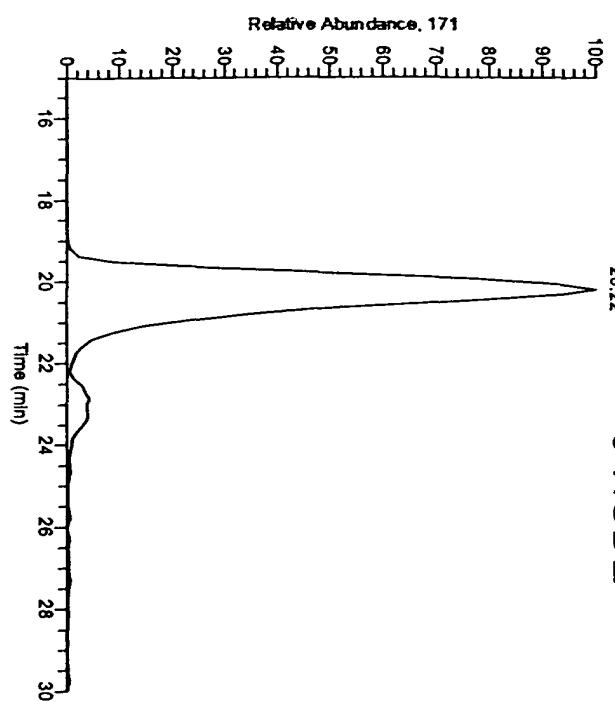
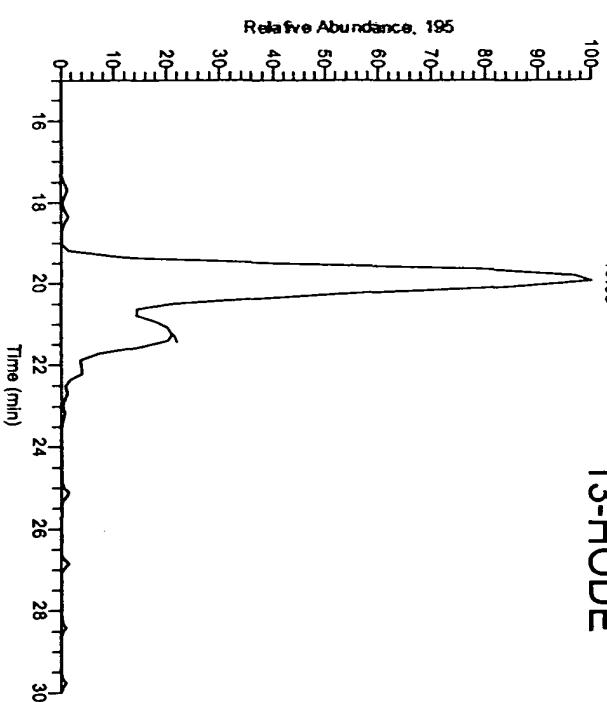


FIG. 10C

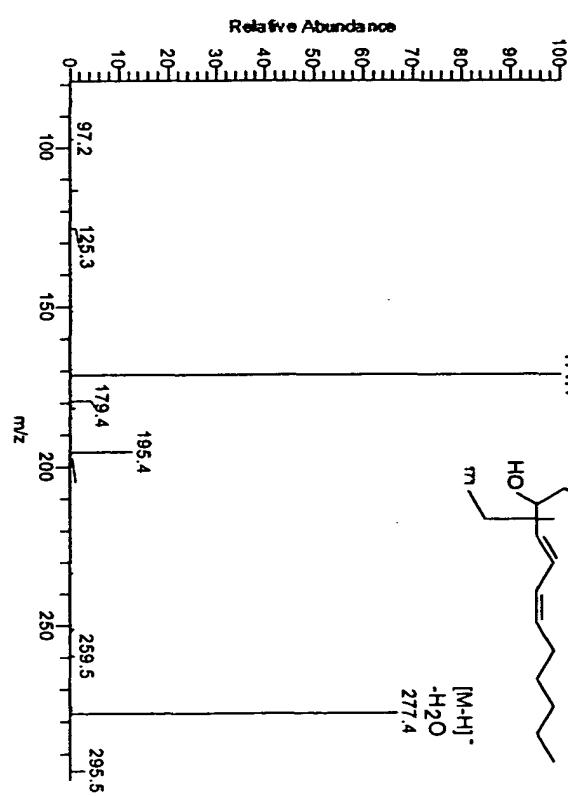
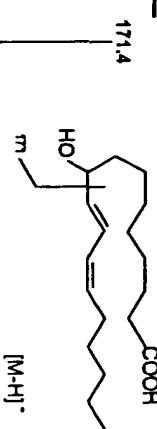
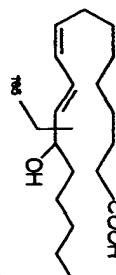
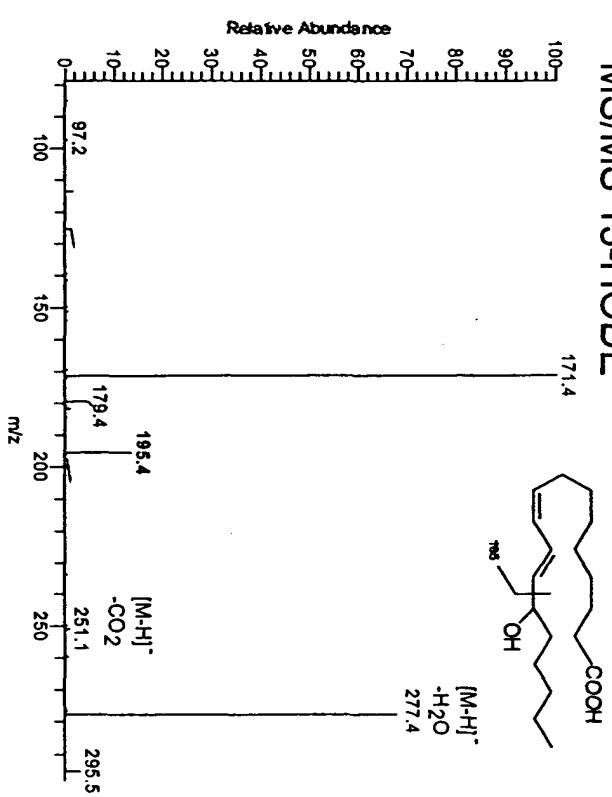
MS/MS 9-HODE



13-HODE



MS/MS 13-HODE



**FIG. 11**

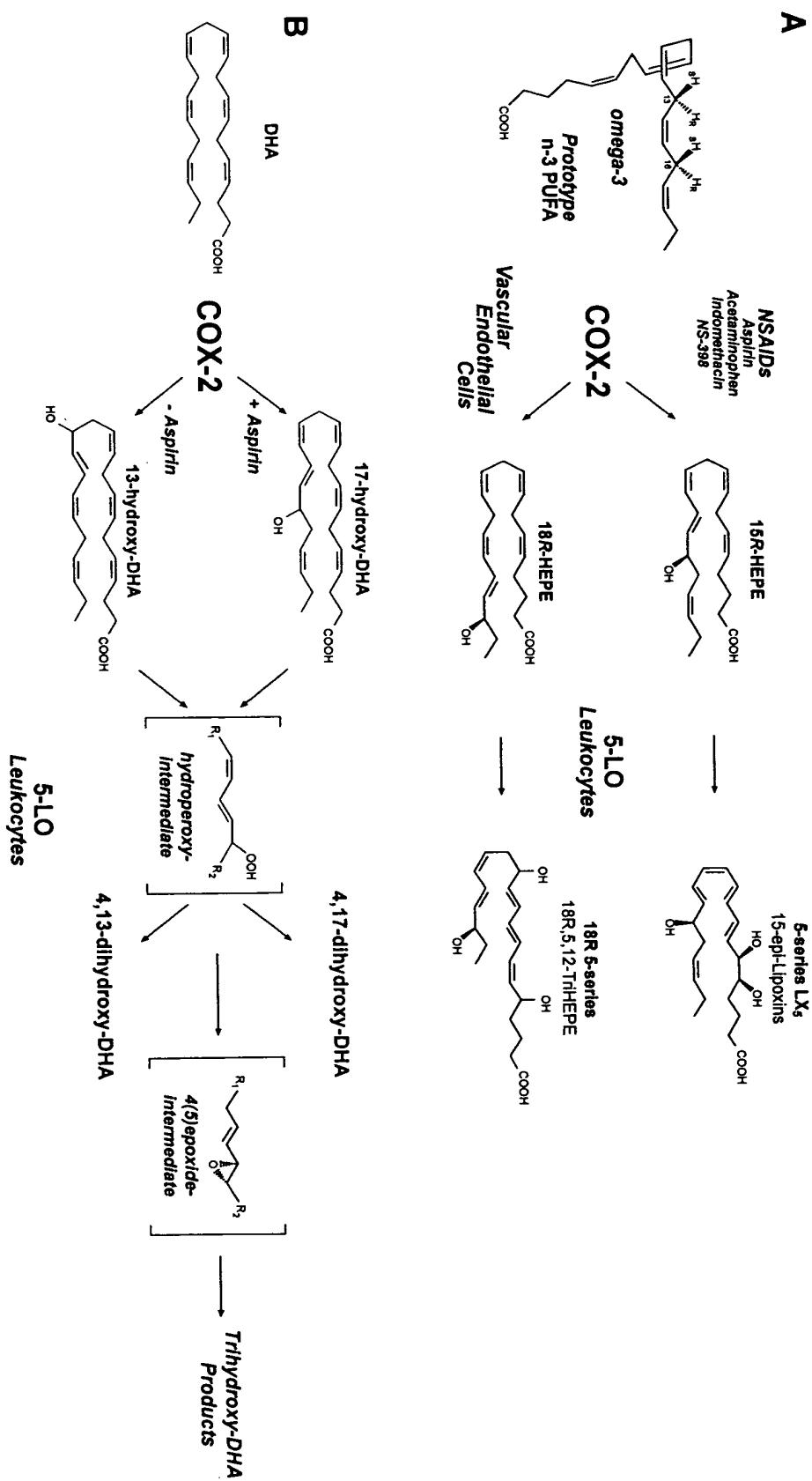
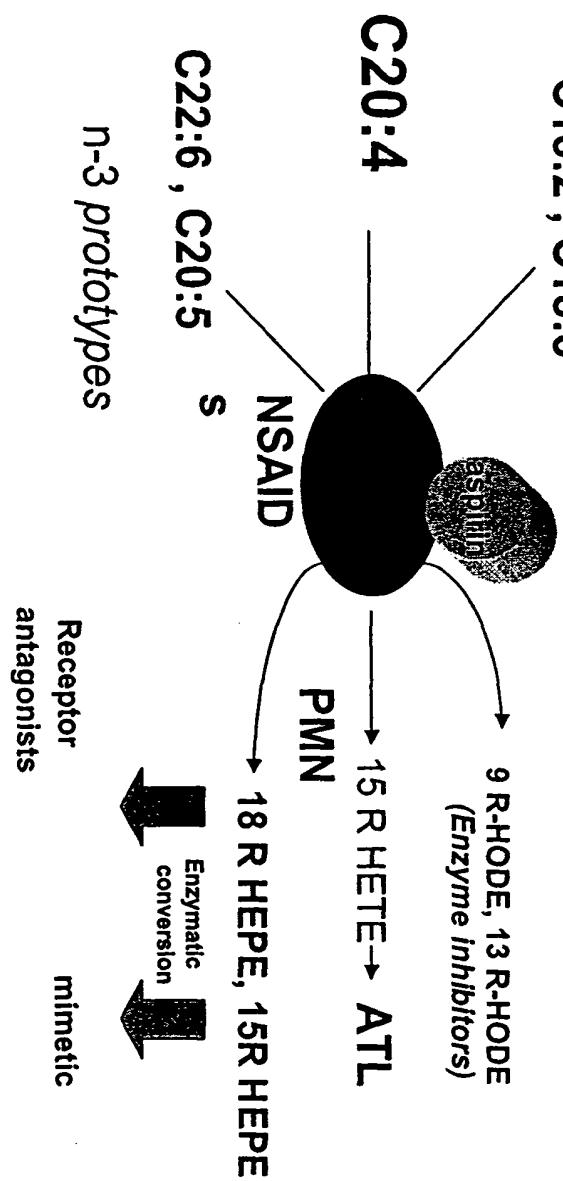


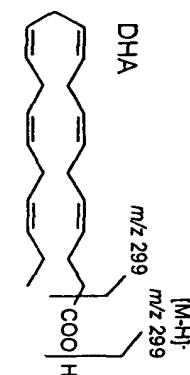
FIG. 12

## Aspirin Triggered / NSAIDs : New Pathways

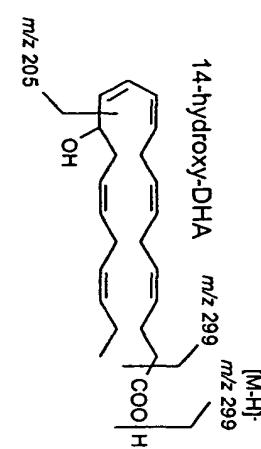
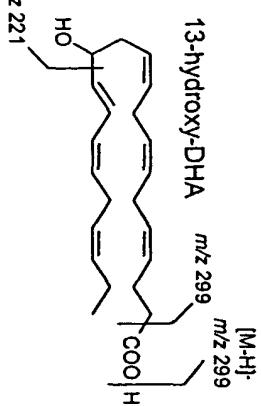
*Dietary Essential Fatty Acids*

Markers & Bioactive

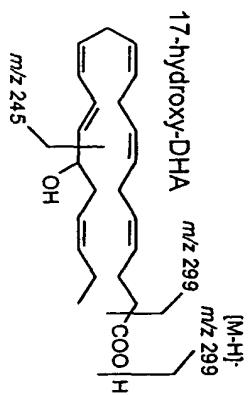




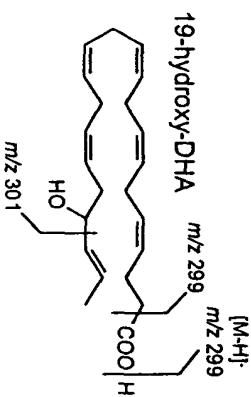
**Major Products**



*m/z* 221

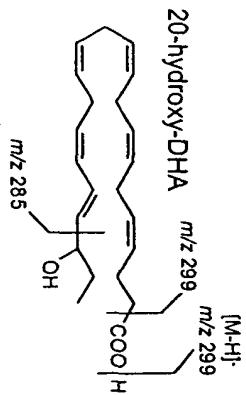


*m/z* 245

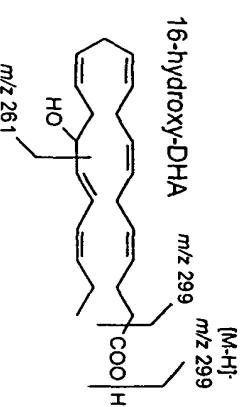


*m/z* 301

**Minor Products**



*m/z* 285



*m/z* 261

FIG. 14A

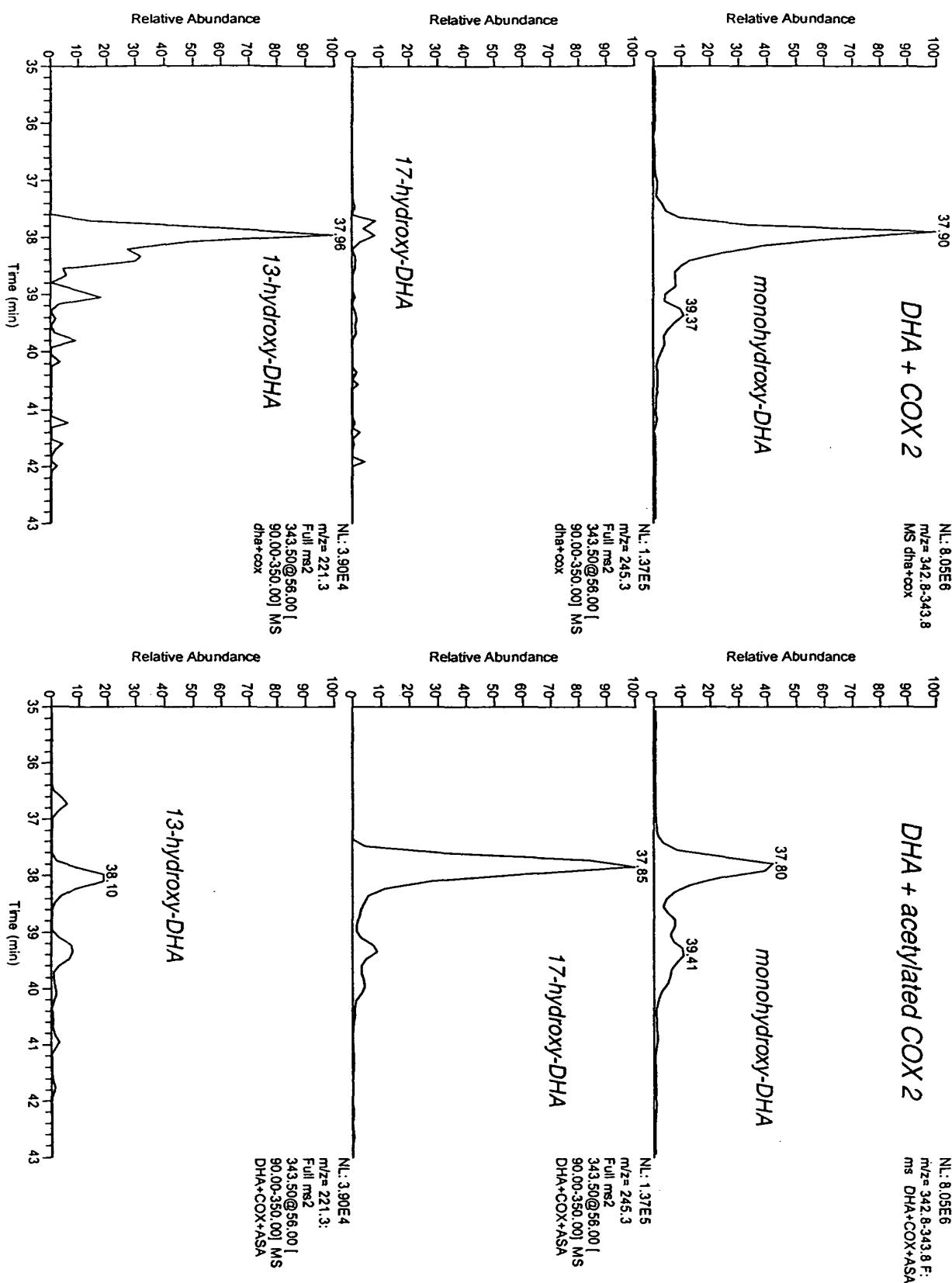
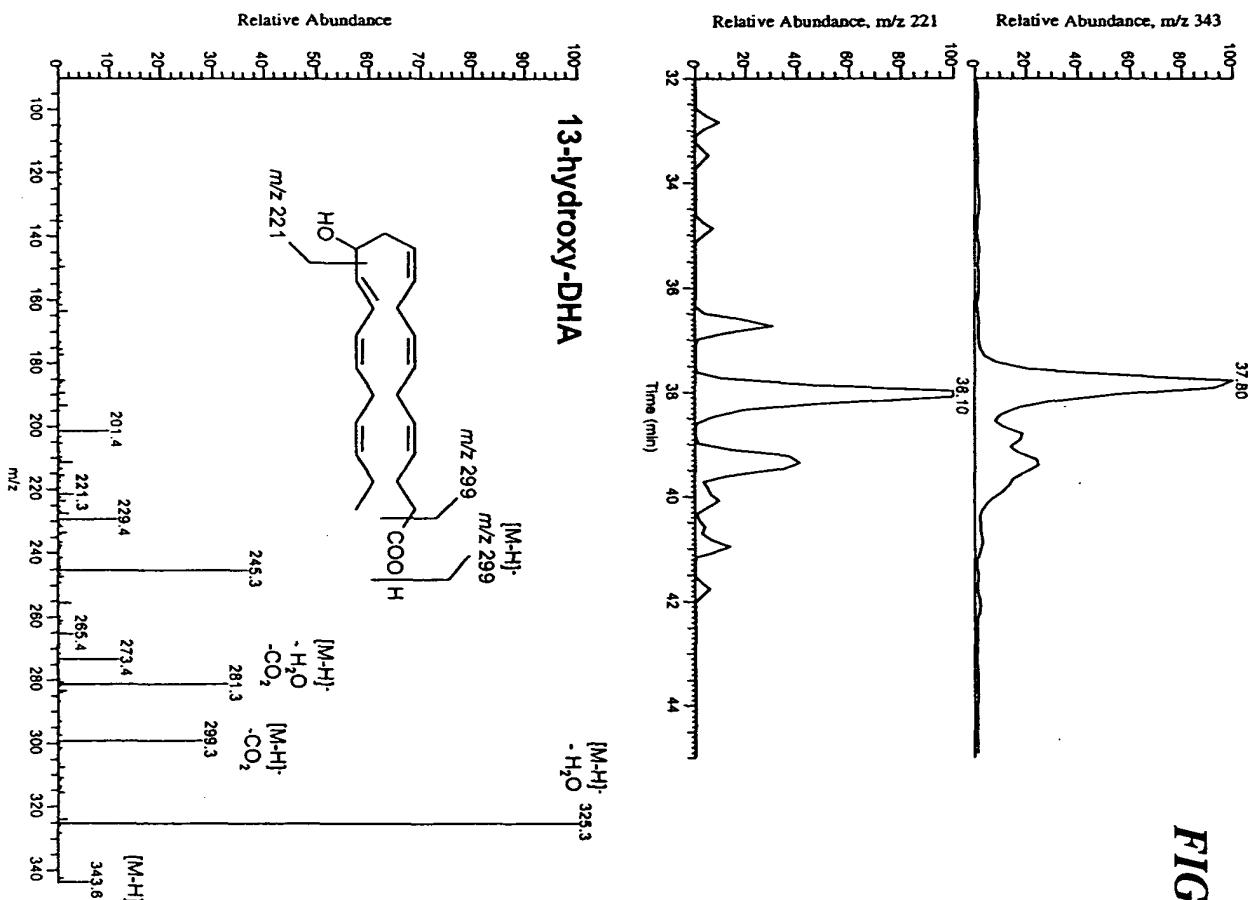


FIG. 14B



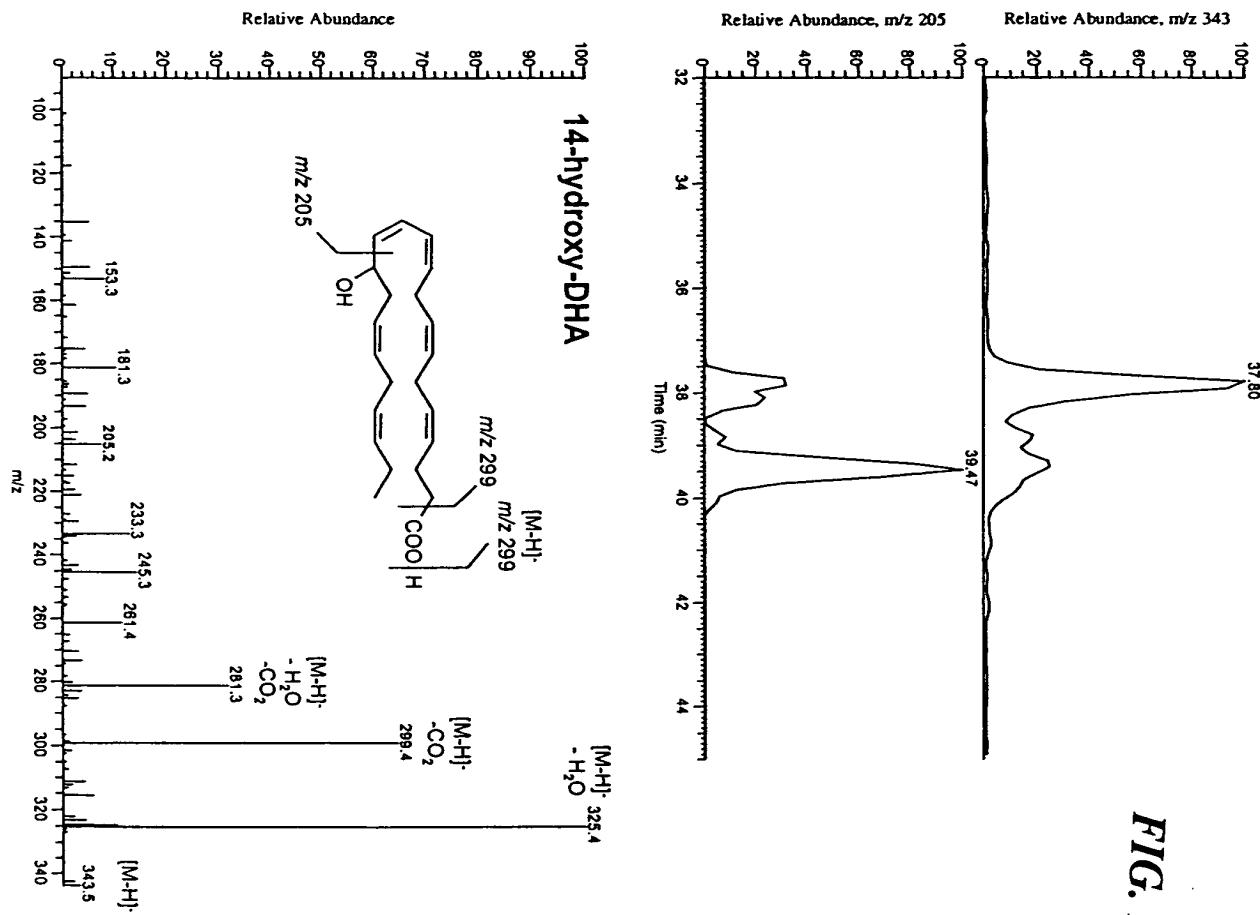
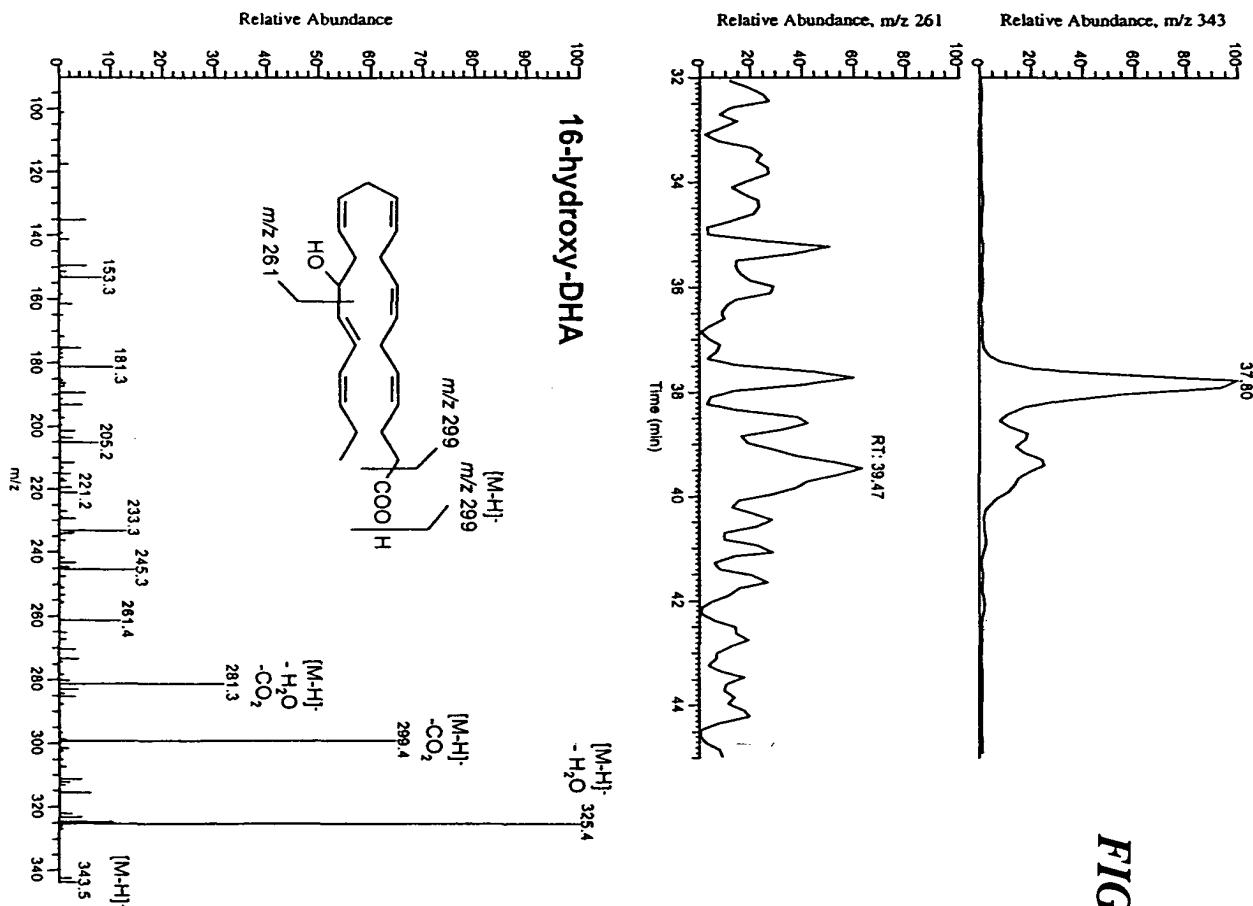


FIG. 14C

**FIG. 14D**



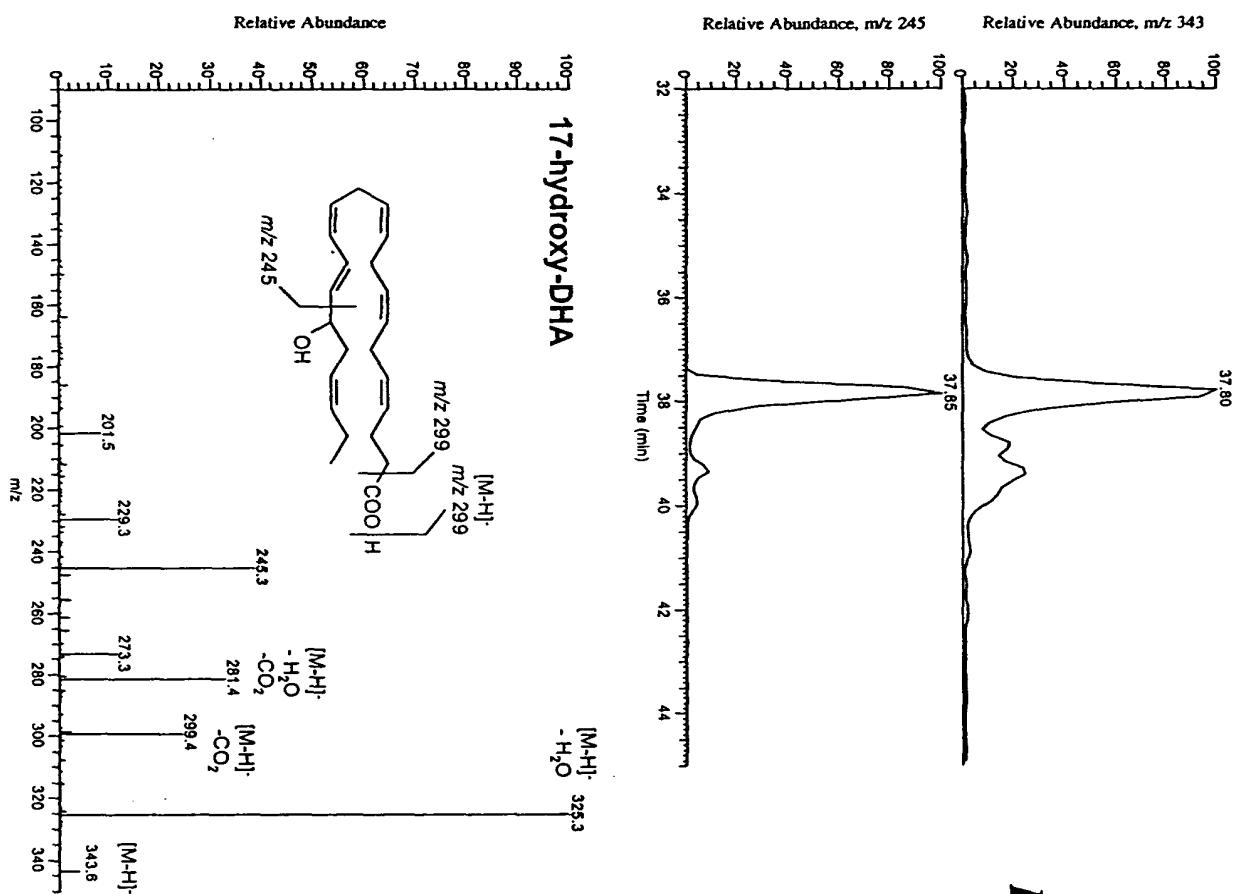
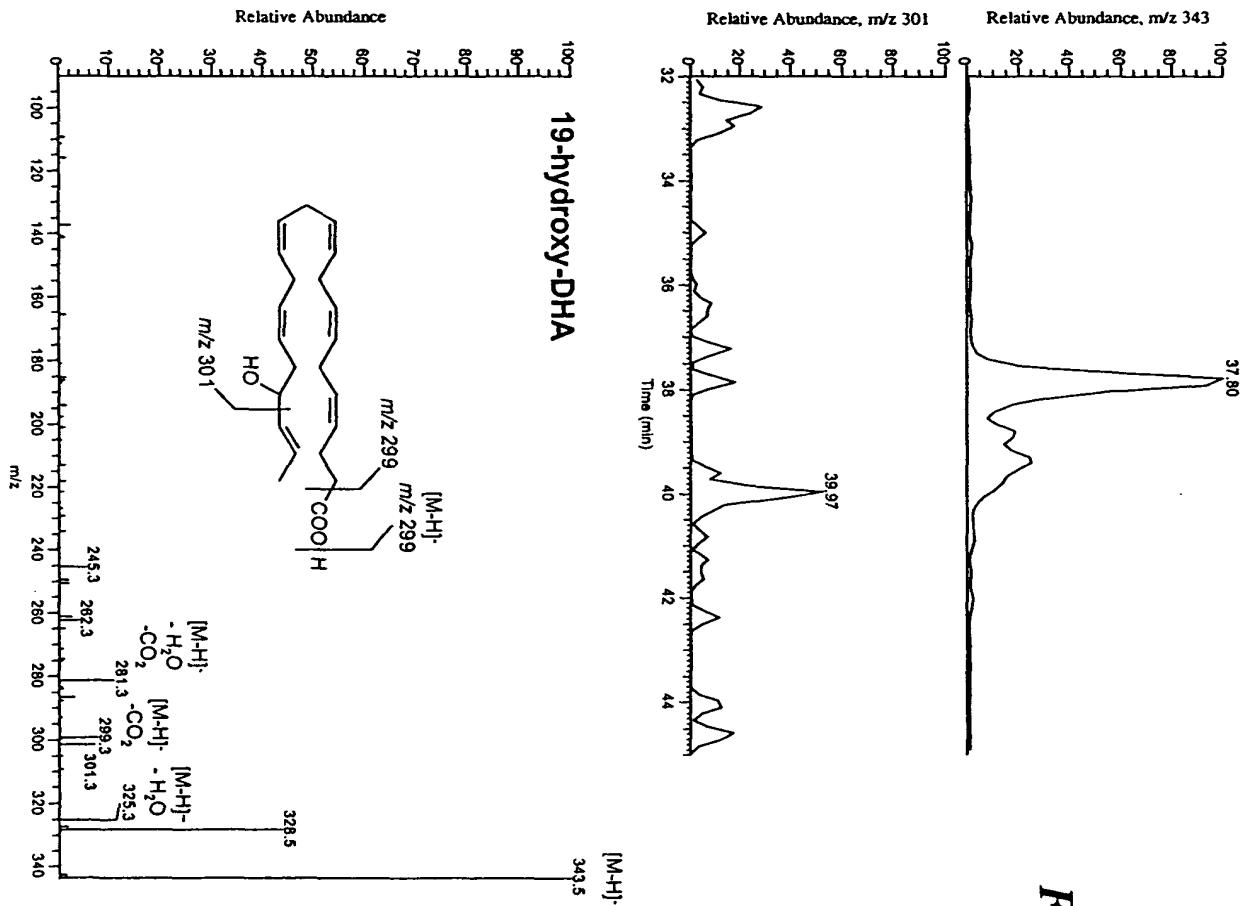


FIG. 14E

FIG. 14F



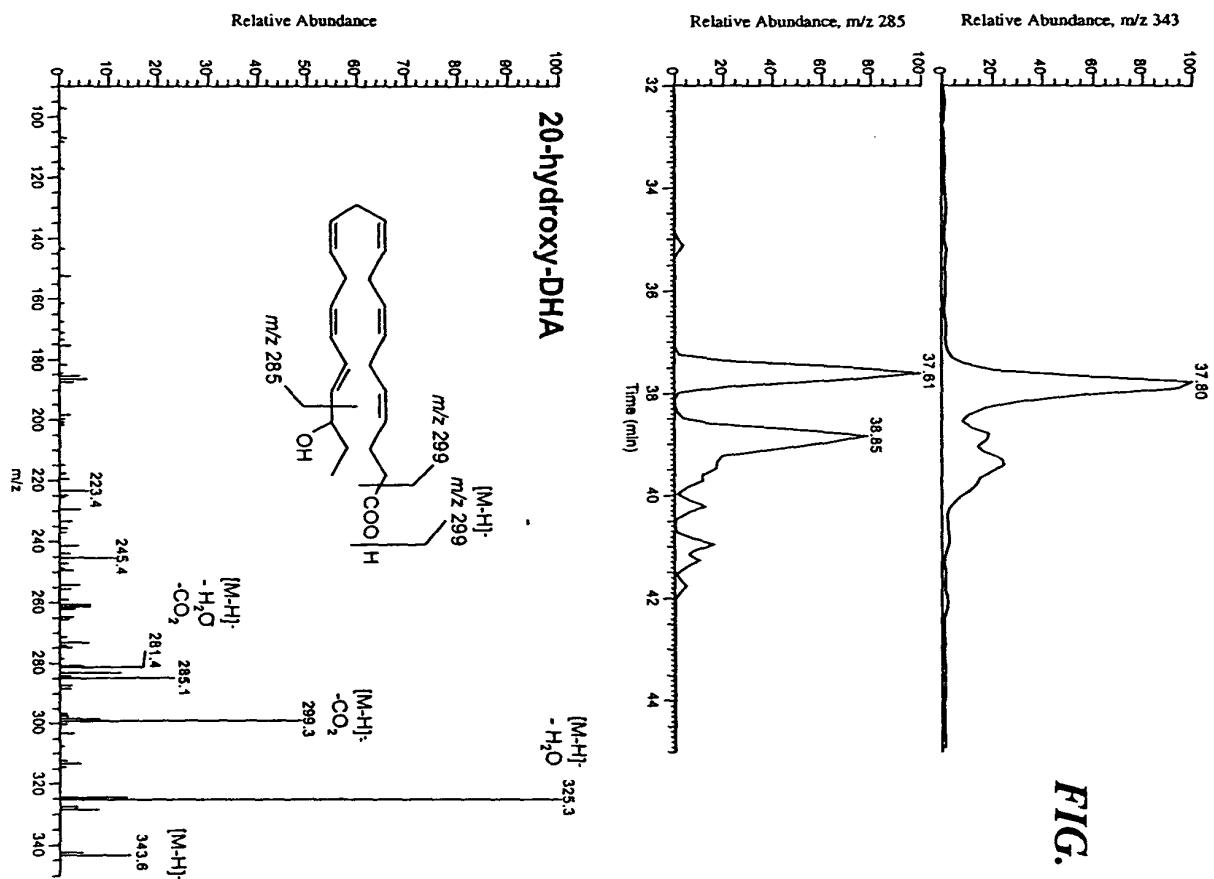


FIG. 14G

# PUFA & ASA-COX-2

FIG. 15

